

Model Number
EX621C40

VERY HIGH FREQUENCY ICP® ACCELEROMETER

Revision: C
ECN #: 53296

Performance	ENGLISH	SI	
Sensitivity(± 10 %)	10 mV/g	1.02 mV/(m/s ²)	[1]
Measurement Range	± 500 g	± 4,905 m/s ²	
Frequency Range(± 10 %)	204 to 1,080,000 cpm	3.4 to 18,000 Hz	[2][3]
Frequency Range(± 3 dB)	96 to 1,800,000 cpm	1.6 to 30,000 Hz	[2][3]
Resonant Frequency	4,500 kcpm	75 kHz	[4][5]
Broadband Resolution(1 to 10,000 Hz)	1.2 mg rms	1,176 µm/sec ²	[4]
Non-Linearity	± 1 %	± 1 %	[6]
Transverse Sensitivity	≤ 5 %	≤ 5 %	
Environmental			
Overload Limit(Shock)	10,000 g pk	98,100 m/s ² pk	
Temperature Range	-65 to +250 °F	-54 to +121 °C	
Temperature Response	See Graph	See Graph	[4]
Electrical			
Settling Time(within 1% of bias)	≤ 3.0 sec	≤ 3.0 sec	
Discharge Time Constant	≥ 0.1 sec	≥ 0.1 sec	
Excitation Voltage	18 to 28 VDC	18 to 28 VDC	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	
Output Impedance	< 100 Ohm	< 100 Ohm	
Output Bias Voltage	8 to 12 VDC	8 to 12 VDC	
Spectral Noise(10 Hz)	100 µg/√Hz	980 (µm/sec ²)/√Hz	[4]
Spectral Noise(100 Hz)	30 µg/√Hz	294 (µm/sec ²)/√Hz	[4]
Spectral Noise(1 kHz)	10 µg/√Hz	98.1 (µm/sec ²)/√Hz	[4]
Electrical Isolation(Base)	≥ 10 ⁸ Ohm	≥ 10 ⁸ Ohm	
Physical			
Size (Hex x Height)	.438 in x 0.847 in	11.125 mm x 21.51 mm	
Weight	0.29 oz	8.17 gm	[7]
Mounting Thread	5-40 Male	5-40 Male	
Mounting Torque	7 to 8 in-lb	79 to 90 N-cm	
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Stainless Steel	Stainless Steel	
Sealing	Welded Hermetic	Welded Hermetic	
Electrical Connection Position	Top	Top	
Electrical Connections	5-44 Coaxial Jack	5-44 Coaxial Jack	

OPTIONAL VERSIONS

Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.

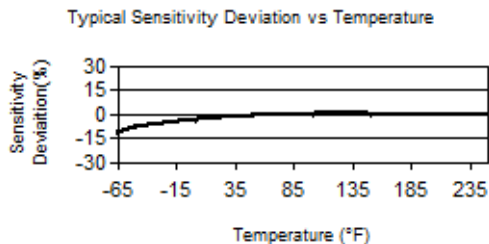
M - Metric Mount
Mounting Thread M3 x 0.50 Male M3 x 0.50 Male

NOTES:

- [1] Conversion Factor 1g = 9.81 m/s².
- [2] The high frequency tolerance is accurate within ±10% of the specified frequency.
- [3] Frequency response with magnetic base.
- [4] Typical value.
- [5] Mounted resonance (nominal) without magnet.
- [6] Zero-based, least-squares, straight line method.
- [7] Typical.
- [8] See PCB Declaration of Conformance PS023 for details.
- [9] See Model's "Instructions For Use" (IFU) for North American Conformity and Certification Statements.

SUPPLIED ACCESSORIES:

Model ICS-6 NIST traceable single axis amplitude response calibration from 10 Hz to upper +/- 3dB point. (1)



All specifications are at room temperature unless otherwise specified.
In the interest of constant product improvement, we reserve the right to change specifications without notice.
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Entered: ND	Engineer: gs	Sales: KWW	Approved: BAM	Spec Number:
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